

India Water and Wastewater Treatment Technology Market By Equipment Type (Treatment Equipment (Oil/Water Separation, Suspended Solids Removal, Dissolved Solids Removal, Biological Treatment/Nutrient, and Metals Recovery, Disinfection/Oxidation, Other Treatment Equipment), Process Control Equipment, Pumps), By Chemicals (Coagulants & Flocculants, Antifoams & Defoamers, Corrosion & Scale Inhibitors, Activated Carbon, Biocides, Others), By End-User Industry (Municipal, Food & Beverage, Pulp & Paper, Oil & Gas, Healthcare, Poultry & Agriculture, Chemical, and Other End-User Industries), By Region, Competition, Forecast & Opportunities, 2019-2029

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Report description:

India water and wastewater treatment technology market is anticipated to grow robustly during the forecast period due to rapidly diminishing freshwater resources and the growing need for water reclamation and reusable technologies. However, the high cost of water and wastewater treatment technologies and the lack of understanding of proper water treatment method utilization are impeding the development of this industry. In addition, the market's participants can anticipate to benefit greatly from the rising demand for sophisticated and energy-efficient water treatment technology. A significant obstacle to the expansion of this sector is the aging and corrosion of the current water infrastructure.

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The growing need for an efficient method to dispose of industrial effluent has been claimed to be the cause of the rising demand for wastewater treatment. In addition, the COVID-19 pandemic forced hospitals to implement sophisticated wastewater treatment methods to stop the spread of the disease. As a result, during the pandemic, decentralized wastewater treatment facilities with several disinfection barriers in quarantine facilities and isolation wards gained popularity. Thus, the India water and wastewater treatment technology market is anticipated to grow during the forecast period.

Growing Demand for Water Reclamation and Reuse Technologies

Severely stressed water supplies continue to come under increasing pressure from the burgeoning population. Thus, there is an increase in technology that encourage more effective use of water that is currently accessible. Additionally, the need for industrial wastewater treatment is becoming more complex as there is a shortage of water, and enterprises are being pushed to adopt innovative methods to improve economic and environmental performance.

Moreover, industrial growth, particularly in electricity, oil and gas, refineries, chemicals, and petrochemicals, is anticipated to accelerate with economic diversification to lessen India's dependency on the services sector.

The country's industries are expected to embrace international best practices due to rising globalization. Industries, including electricity, chemicals and petrochemicals, and pharmaceuticals demand high-purity water because product quality affects worldwide competitiveness. With the increase in India's industrial production, there will be a greater need for industrial process water, which will increase the requirement for industrial effluent treatment.

With present water consumption patterns, groundwater is rapidly running out. Additionally, groundwater in many regions of India contains pollutants and dissolved particles, rendering it useless if not treated. The demand for water and wastewater treatment systems will increase due to the lack of available water.

Government Policies and Initiatives:

The Indian government enforces water rules and launches programs to lessen water stress as water becomes a limited resource. To guarantee that a sizeable portion of the industrial water demand is satisfied via recycling effluents and household sewage, it creates the National Water Mission (NWM). Through seawater desalination, the NWM also meets the water needs of coastal towns. With Namami Gange and the National River Conservation Plan (NRCP), the government has started the revitalization of national rivers, including the Yamuna and Ganga. It also promotes sustainable development through the Swachh Bharat Mission, Jal Jeevan Mission, and National Smart Cities Mission, which are expected to increase the demand for water supply and sanitation. The government will spend a total of USD 4.50 trillion on these projects during the next five years.

The third-largest coal producer in the world is India. India produced 729.10 million metric tonnes (MT) of coal in FY20, and it is predicted that this number will increase to 304.88 MT in FY21. About 70% of the power produced in India is from coal. Since producing coal uses a lot of water, extensive wastewater treatment is necessary. The mining industry makes extensive use of clarifiers and disposable filtering equipment to handle suspended particles. The COVID-19 pandemic hampered mine expansions and production rates in 2020, which had a negative impact on the uptake of cutting-edge solid treatment technology.

Laws and regulations governing water are getting stricter, which need industry compliance. Many governments, including Bihar, provide tax incentives to new businesses that build wastewater treatment facilities. On a case-by-case basis, the Indian government also extends loans with a 0% interest rate.

More businesses will implement water and wastewater treatment systems and avoid dumping waste effluents directly into water bodies as a result of increased regulatory compliance and knowledge.

Slow Regulations Implementation

India has a plan for effective water management, but it takes a while to implement changes and rules. Inadequate personnel, improper delivery methods, and bureaucratic obstacles are serious problems that must be resolved at the implementation level. The State Pollution Control Board (SPCB) administers rules, whereas the CPCB develops policy. Due to the fact that two different bodies are in charge of creating and enforcing laws, inconsistent and delayed regulatory enforcement have become the norm. Such factors are hindering the growth of the India water and wastewater treatment technology market.

Market Disparity

With many small and medium-sized businesses, the water and wastewater treatment sector in India is extremely fragmented. By

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providing systems at low costs, these businesses compete with one another and start price wars. Due to end users' price sensitivity and the large number of small and medium-sized businesses operating in end-user industries, including food and beverage, medicines, and textiles, the market is fragmented and does not consolidate.

India is anticipated to be a significant market for water and wastewater business prospects, especially if the government encourages both domestic and foreign businesses to investigate this industry. As businesses attempt to enhance their market positions and broaden their market penetration, the water and wastewater treatment industry has seen major acquisitions and tie-ups. For instance, The RO Membrane Portfolio of LANXESS was purchased by SUEZ in 2021 - The purchase expands SUEZ's capacity and experience in the manufacturing of RO membranes globally and solidifies its foothold in the brackish water treatment market. It also includes LANXESS's production and research facilities in Bitterfeld, Germany. Moreover, Projects by Tata (2018) partnered with Israel-based Westergen A Memorandum of Understanding (MoU) for the extraction of water from the atmosphere was signed between Westergen and Tata Projects. The cooperation seeks to establish a joint organization in India to oversee regional operations and the production of Watergen units as well as the establishment of a distributed water grid network throughout the nation.

Growing Wastewater Complexities

Over the past several years, the demand for water and wastewater treatment technology has increased significantly due to rising industrialization and population in India. Water treatment and reuse are grossly underfunded. Around 1.7 million tonnes of fecal waste are produced daily in India as of 2019. However, 78% of this sewage is left untreated. Additionally, only around 33% of the total wastewater generated in the nation is treated altogether. States with significant population such as Bihar, Madhya Pradesh, and Andhra Pradesh still lack the infrastructure required to treat half of the wastewater produced. Moreover, while the treatment capacity of 35 metropolitan areas with a population of over one million people totals 51 percent, Class I cities only account for 32.5 percent, and Class II cities have a negligible 12 percent treatment capacity, the distribution of treatment plants around the nation is unequal.

Market Segmentation

The India water and wastewater treatment technology market is segmented into equipment type, chemicals, end-user industry, and region. Based on equipment type, the market is segmented into treatment equipment, process control equipment, and pumps. Based on chemicals, the market is segmented into coagulants & flocculants, antifoams & defoamers, corrosion and scale inhibitors, activated carbon, Biocides, and others. Based on end-user industry, the market is segmented into municipal, food & beverage, pulp & paper, oil and gas, healthcare, poultry and agriculture, chemical, and other.

Market players

Major players operating in the India water and wastewater treatment technology market are Aquatech Systems Asia Pvt Ltd, E.I. DuPont India Private Ltd, Evoqua Water Technologies India Private Limited, Hitachi India, Mott Macdonald, Schlumberger Asia Services Ltd., Siemens Water Solutions. Suez India, Hindustan Dorr-Oliver, and Thermax Ltd.

Report Scope:

In this report, the India water and wastewater treatment technology market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Water and Wastewater Treatment Technology Market, By Equipment Type:

- o Treatment Equipment
- o Oil/Water Separation
- o Suspended Solids Removal
- o Dissolved Solids Removal
- o Biological Treatment/Nutrient And Metals Recovery
- o Disinfection/Oxidation
- o Other
- o Process Control Equipment
- o Pumps

India Water and Wastewater Treatment Technology Market, By Chemicals:

- o Coagulants And Flocculants

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- o Antifoams And Defoamers
- o Corrosion And Scale Inhibitors
- o Activated Carbon
- o Biocides
- o Others
- o India Water and Wastewater Treatment Technology Market, By End-User Industry:
- o Municipal
- o Food And Beverage
- o Pulp And Paper
- o Oil And Gas
- o Healthcare
- o Poultry And Agriculture
- o Chemical
- o Others

? India Water and Wastewater Treatment Technology Market, By Region:

- o West India
- o North India
- o South India
- o East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India water and wastewater treatment technology market.

Available Customizations:

India water and wastewater treatment technology market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- o Detailed analysis and profiling of additional market players (up to five).

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